



## SPECIFICATION

Clean Version

### TITLE OF THE INVENTION

HEAT STORAGE UNIT

### FIELD OF THE INVENTION

[0001] The present invention relates to a heat storage unit capable of storing generated heat and transporting the heat to a remote place.

### BACKGROUND

[0002] Heat generated from a factory such as an ironworks and garbage-disposal facility, for example, is used in various kinds of facility near the factory. Further, by temporarily storing the heat generated from the factory in a heat storage body or the like and by transporting the heat storage body, the heat can be used in the remote place from the factory. As a device for storing heat, there exists a device that performs heat exchange by allowing a medium such as oil, to which heat is supplied, to directly contact metal hydrate and stores heat in the metal hydrate.

[0003] For example, the heat storage body such as sodium acetate and oil having a smaller specific gravity than that of the heat storage body are housed in the storage container of Patent Document 1. Since the specific gravity of oil is smaller and the oil and the heat storage body do not mix, they are housed vertically in a separated manner. Then, pipes are disposed in the oil and the heat storage body, and they are severally connected to a heat exchanger. The oil is taken into the heat exchanger from one pipe to supply heat, and the oil to which heat was supplied is discharged from the other pipe